Version P2x4: 060299

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FCC Class B/European CE Compliance

WARNING: This equipment has been tested and found to comply with the limits for a CLASS B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions contained in this manual, may cause harmful interference to radio and television communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment into an outlet on a circuit different from that of the receiver; 4) consult the dealer or an experienced audio television technician.

NOTE: Connecting this device to peripheral devices that do not comply with CLASS B requirements or using an unshielded peripheral data cable could also result in harmful interference to radio or television reception.

The user is cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

To ensure that the use of this product does not contribute to interference, it is necessary to use shielded I/O cables.

IMJPORT2X4

This product also complies with European CE requirements.

Overview

Thank you for purchasing Portman 2x4.

Portman 2x4 is a professional 2 In/4 Out MIDI interface that connects externally to the parallel printer port on any IBM or compatible PC computer.

When using Portman with a MIDI application, you will have to make sure that the correct Portman MIDI driver is installed for your application. Fortunately, all Windows applications use the same driver and this is included on the diskette that comes with your Portman. If you have a DOS MIDI application, you should check and make sure that the correct driver is included on the diskette and that it is loaded properly.

If you have any questions, comments, or suggestions about Portman 2x4 or any MIDIMAN product, we invite you to contact us directly at:

MIDIMAN
Technical Assistance: **(626) 445-8495**
45 E. Saint Joseph Street
Arcadia CA 91006-2861

Fax: (626) 445-7564

World Wide Web: www.midiman.net

Features

PORTMAN 2x4 has the following features:

- 2 completely independent MIDI Ins and 4 MIDI Outs.
- Extremely Portable. Works with laptops, and notebooks, as well as desktops.
- No internal installation is required. Connects via standard Centronics-compatible printer cable.
- Runs on any PC including XT/286/386/486 compatible computers — at any speed.
- Compatible with any sequencer that supports the Windows Multimedia Environment.
- Windows and Cakewalk DOS drivers included.
- Power adaptor and Centronics cable provided.

Hardware Installation

1. Make sure that you have turned off power to your computer.
2. If you have more than one parallel (printer) port installed in your computer, choose one and connect PORTMAN to it via a standard (fully Centronics-compatible) PC printer cable. There should be one included in the PORTMAN box. Then plug one end of the power adaptor into PORTMAN and the other into the AC power source. The computer is now ready to be turned back on. Turn it on.

About the Parallel Cable

PORTMAN comes with a suitable parallel cable. However, if you need to replace this cable or want a longer one there are certain requirements that you should be aware of. The PORTMAN 2x4 appears to be able to work with any printer cable. This unfortunately is not the case. A Centronics cable that works with your printer won't always work with the PORTMAN 2x4. There are two reasons for this:

1. The PORTMAN runs at a much higher data rate than a printer and therefore often requires a shorter (6 feet or less) and higher quality cable with all of its ground wires present.
2. PORTMAN uses some of the signals of the Centronics cable that are unneeded by a printer. The PORTMAN therefore requires a cable that has all 25 wires present and connected according to Centronics specification.

If you are having trouble with the PORTMAN using your present printer cable, you can purchase one either directly from MIDIMAN, through a MIDIMAN Dealer or from your local electronics store.

MIDIMAN has found at least one easily obtainable cable that is known to work with the PORTMAN 2x4. It is made by GC Electronics and has Part #45-201-BU.

In the event that you are going to purchase a cable yourself and you can not find the GC Electronics cable, you can use this chart as a guide to find a compatible cable:

Line Name	DB25s (25 pin end)	Centronics
-Strobe*	1	1
D0	2	2
D1	3	3
D2	4	4
D3	5	5
D4	6	6
D5	7	7
D6	8	8
D7	9	9
-ACK*	10	10
Busy	11	11
PE	12	12
SLCT	13	13
-AUTOFD*	14	14
-Error*	15	32
-INIT*	16	31
-SLCT In*	17	36
Ground	18 thru 25**	16,19-30,33

* A dash in front of a line name denotes a line that is functionally active when low.

** The ground lines on the DB25s end of the cable can tie to any of the ground pins on the Centronics side, but they must run as separate wires and not share any pin at the Centronics end (none bridged or tied together).

Typically, if you ask your dealer for a 6-foot Centronics cable with all 25 wires connected, you will get a cable that matches the above table.

Note: Cables lengths of up to 30 feet have been found to work just fine

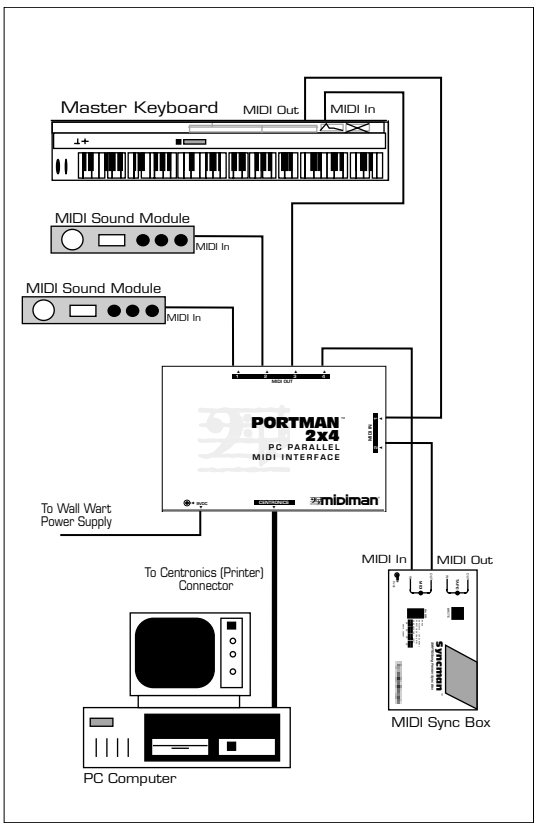
in tested systems.

Typical System Set-Up

The diagram below shows a typical set-up using the PORTMAN 2x4. Your required set-up may vary slightly from this but this general set-up should be followed.

Software Installation (Drivers)

Software installation varies according to the MIDI application(s) you are using. Most programs require a special piece of software known as a "MIDI Driver" in order to communicate with the PORTMAN interface hardware. Others have built-in PORTMAN support and may require you



to configure your application for use with PORTMAN via a dialog box or menu item.

Some manufacturers may provide PORTMAN MIDI driver software along with their application software, while others may offer supplemental disks that include a PORTMAN MIDI driver. Please consult the user's guide associated with your MIDI application(s) for instructions regarding MIDI interface driver installation. Included with your PORTMAN 2x4 hardware is a disk of PORTMAN software with drivers for Windows and Cakewalk for DOS.

Windows 98 Driver Installation

1. Select "Add New Hardware" from the Control Panel. Press the "Next>" button.
2. Click "Next>" again.
3. The system will now search for Plug and Play hardware.
4. If Windows does find a device, it will not be the PORTMAN 2X4 (it is not PnP). If this is the case, click on "No, the device isn't in the list." Click the "Next>" button. If Windows does not find a Plug and Play device, skip to step 5.
5. Click "No, I want to select the hardware from a list," because you do not want the system to search for the hardware.
6. Scroll down the list of Hardware Types and select "Sound, Video and Game Controllers." Click "Next>."
7. Click on "Have Disk...."
8. Insert the PORTMAN 2X4 Drivers and Diagnostics disk in Drive A:\ and click "OK."
9. The PORTMAN 2X4 driver appears in the list. Click on "OK."
10. Click on "Finish." Windows will copy the driver files.
11. Check the "Enable Interface" box and select the proper Port Address and IRQ settings that match the actual hardware settings of your computer's printer port.
    Typically, LPT1 will be address 3BCh or 378h on a desktop computer. Also typically, if LPT2 is installed, it will be at address 278h. Usually LPT1 uses IRQ7 and LPT2 uses IRQ5. You may also select other "non-standard" IRQs if required to do so — checking the "Use Custom Port/IRQ" checkbox will make "non-standard" IRQs available for driver use.
    If you are unsure of what your Port Address is, please see the section in this manual titled "About Your Printer Port," or consult your computer's owner's manual.
12. Once the Port Address and IRQ are selected, press the <OK> button.

13. In order for Windows to complete the new driver installation, you will be required to exit and restart Windows. Select the <Restart Now> button to do so.
14. Windows will restart.

IMPORTANT: With Windows 98 make sure to click on the "Enable Driver" box. If you fail to do this the PORTMAN 2x4 driver will not be enabled.

Windows 95 Driver Installation

1. Select "Add New Hardware" from the Control Panel. Press the "Next>" button.
2. Click radio button "No" because you do not want Windows to search for new hardware. Click on "Next>".
3. Scroll down in the box and select "Sound, video and game controllers". Click on "Next>".
4. Click on "Have Disk...".
5. Insert the factory supplied driver disk in Drive A: and click on "OK".
6. Select the Midiman PORTMAN 2X4 driver from the list box and click on "OK".
7. Click on "Finish". Windows will copy the driver files.
8. Check the "Enable Interface" box and select the proper Port Address and IRQ settings that match the actual hardware settings of your computer's printer port.
   Typically, LPT1 will be address 3BCh or 378h on a desktop computer. Also typically, if LPT2 is installed, it will be at address 278h. Usually LPT1 uses IRQ7 and LPT2 uses IRQ5. You may also select other "non-standard" IRQs if required to do so — checking the "Use Custom Port/IRQ" checkbox will make "non-standard" IRQs available for driver use.
   If you are unsure of what your Port Address is, please see the section in this manual titled "About Your Printer Port," or consult your computer's owner's manual.
9. Once the Port Address and IRQ are selected, press the <OK> button.
10. In order for Windows to complete the new driver installation, you will be required to exit and restart Windows. Select the <Restart Now> button to do so.
10. Windows will restart.

IMPORTANT: With Windows 95 make sure to click on the "Enable Driver" box. If you fail to do this the PORTMAN 2x4 driver will not be enabled.

Windows 3.1 Driver Installation

If you are going to use PORTMAN with Microsoft Windows 3.1 (or later revision), you will need to install the PORTMAN Windows 3.1 MIDI drivers, supplied on floppy disk. In order to work with Windows in both Standard Mode and 386 Enhanced Mode, PORTMAN 2x4 requires the installation of the Windows Device Driver, PP2X4WIN.DRV, and the Windows Virtual Device Driver, PCP2X4.386. Both are installed simultaneously in the same installation process which follows:

The installation of PORTMAN Windows MIDI drivers is simplified by using the Windows Control Panel "Drivers" applet. In addition to installing the Windows MIDI drivers, you will also have to set up your Windows MIDI applications to take advantage of the installed PORTMAN 2x4 driver.

1st-Time Windows Driver Installation

If there is no current PORTMAN 2x4 Windows MIDI driver installed on your system, follow these steps to install the PORTMAN Windows driver(s):

1. Start Windows as you usually do.
2. Open the Windows Control Panel application (usually in your Main program group).
3. Start the Drivers applet.
4. Check for a "MIDIMAN PORTMAN 2x4" entry in the Installed Drivers list. If one exists, the PORTMAN driver (or a previous version of the driver) has already been installed. Discontinue this FIRST-TIME WINDOWS DRIVER INSTALLATION procedure and instead follow the UPDATING THE WINDOWS DRIVER procedure. If one does not exist, then please continue.
5. Push the [Add] button.
6. Select the "Unlisted or Updated Driver" entry and push the [OK] button.
7. You will be prompted for a disk drive from which to read the Windows 3.1 drivers. Insert your PORTMAN 2x4 master disk into your floppy disk drive and, if necessary, enter the disk drive specification (usually A: or B:) in the prompt box. Click on [OK].
8. When the "Add Unlisted or Updated Driver" Window pops up, select the "MIDIMAN PORTMAN 2x4" and click on [OK].
9. The PORTMAN driver set-up dialog box will then appear. Make your set-up choices now. At the bottom of the box, for future reference, will

be your driver version number. Also there will be check-boxes for special functions to be described later.

At this point it will be necessary for you to know the port address of the parallel port your PORTMAN is connected to and enter it in the set-up box.

Typically, LPT1 will be address 3BC on a desktop computer with a monochrome display. On color systems or most laptops, however, the address of LPT1 is 378.

If you are unsure of what your port address is or how to find out, please see the section in this manual titled "About Your PC Port Address" (page 13), or you can consult your computer owner's manual. There is also a utility on your disk called LPT.EXE that will find the address of any parallel ports that are enabled on your computer. (Be sure to run this program from DOS, since Windows can complicate the running of hardware diagnostic software.)

Note: IRQ numbers are typically chosen automatically based on the LPT number setting. Address 3BC or 378 for LPT1 will almost always use IRQ 7. So this will be set automatically from the main screen of the set-up dialog box. Likewise, LPT2, which will usually be address 278, will almost always be IRQ 5, and also chosen automatically.

10. Once the proper set-up is selected, press the [OK] button.
11. In order for Windows to install the new driver completely, you will be required to exit and restart Windows.
12. After restarting Windows, run your MIDI application(s). You will need to set up each MIDI application individually. From within the application(s), select the MIDIMAN PORTMAN 2x4 as the current MIDI device (the selection procedure will depend on the application) in order for the application to communicate with your PORTMAN interface properly.

IMPORTANT: If you encounter problems using the PORTMAN 2X4 with Windows, verify that Windows has loaded the PORTMAN 2X4 driver. In Windows 98 or 95, go to Control Panel, open Multimedia, click Devices (Advanced in Win95), and open the MIDI Devices & Instruments list. In Windows 3.1, this can be done by opening the Control Panel icon in the Main Group and double clicking on the Drivers icon.

Important Note for Windows 98, 95, and Windows 3.11 for Work Groups Users

Both Windows for Work Groups and Windows 98 & 95 load a virtual print driver for networked printers. This driver will interfere with the PORT-

MAN 2x4 driver and could cause your computer to lock when running a MIDI sequencing program. To alleviate this problem, edit the SYSTEM.INI file in your Windows directory (This is done either with the DOS editor, Windows Notepad application, or the SYSEDIT program in Windows 95). After you have opened SYSTEM.INI, place a semicolon (;) in front of the line in the [386Enh] section that reads "device=*vpd", save the file, and restart Windows.

Updating the Windows Driver

If you already have a copy of the PORTMAN Windows driver installed on your system and wish to update it with a newer version, you will need to remove the current (older) driver and re-install the newer PORTMAN driver. Follow these steps to remove the current driver from your system:

1. Start Windows as you usually do.
2. Open the Windows Control Panel application from My Computer or Settings in the Start Menu (in your Main program group in Win 3.1).
3. Double click Multimedia. In Windows 98 click Devices, In 95 click Advanced. In Windows 3.1, start the Drivers applet.
4. Check for a "MIDIMAN PORTMAN 2x4" entry in the Installed Drivers list. If none exists, you know the driver is not installed - discontinue this procedure and follow the FIRST-TIME WINDOWS DRIVER INSTALLATION procedure instead. If the entry exists, then highlight it (click Properties in 98 & 95) and select [Remove].
5. In order for Windows to install the new driver, you will be required to exit and restart Windows.
6. After exiting and restarting Windows, follow the FIRST-TIME WINDOWS DRIVER INSTALLATION procedure to install the updated PORTMAN driver.

MIDI Application Set-Up Examples

Cakewalk for Windows (Version 2.0 & Later)

Once the PORTMAN Windows driver is installed, Cakewalk for Windows has to be set up to take advantage of the PORTMAN MIDI interface. Under the Settings Menu in Cakewalk, select MIDI Devices. A "MIDIMAN PORTMAN 2x4" entry should be available under both Input Devices and Output Devices. Select (highlight) PORTMAN under Input and Output. For Output, you may also want to press the [move selected devices to top] button. Then press the [OK] button.

Once the MIDI Device is set to MIDIMAN PORTMAN 2x4, the PORTMAN interface becomes available as a selectable port in the Track/Measure window of each and every track.

Cakewalk for DOS (Version 4.0 & Later)

Note: The following procedures require a basic understanding of common DOS commands. These commands are examples only and may not apply directly to your experience or system. If you do not understand these commands, consult a DOS manual or seek the help of a more experienced IBM or compatible computer user.

Cakewalk for DOS (Version 4.0 and later only) supports the use of an installable Port Device (IPD). You will find the PORTMAN IPD on a MIDIMAN or Twelve Tone-supplied disk. The filename is "PCP2x4CW.DRV". On the MIDIMAN PORTMAN master disk it will be located at the following path:

[drive]:\PCP2x4CW.DRV

In order to install the PORTMAN IPD, you will need to copy it to (and then rename it once it is in) the directory where your CAKEWALK.EXE file is located. For the purpose of these examples, we will assume that this directory will be:

C:\CAKEWALK

Note: You may first wish to save (backup) the old MIDI driver that's already in the directory by renaming it. You can do this by first changing to that directory and then typing:

rename midiport.drv midiport.bak [Enter]

Follow these steps to install your Cakewalk for DOS PORTMAN driver:

1. To copy the driver, first change to the directory where pmanpcak.drv is located and then type:

   copy pcp2x4cw.drv c:\CAKEWALK [Enter]

2. Next, change to the directory where CAKEWALK.EXE is located and rename the PORTMAN driver by typing:

   rename pcp2x4cw.drv midiport.drv [Enter]

3. Before running Cakewalk for the first time, and after installing the PORTMAN driver, execute Cakewalk as follows:

   CAKEWALK.EXE/s

4. From the list of choices, select (3) for MIDI Interface Set-Up. This should bring you to a screen titled:

   "<<MIDI INTERFACE SETUP>>"

5. Enter the Port Address and IRQ number of the parallel port the PORTMAN is connected to. Enter this data in the space provided by the set-up window. This dialog box will have four areas dedicated to the information necessary to run Cakewalk using the PORTMAN 2X4. The display should look something like this:

   Interface type is MIDIMAN PORTMAN 2x4, version 1.xx

   Port: 1=3BCh, 2=378h, 3=278h ———-
   IRQ Number (default=IRQ7) ———-

Note: If you are not sure what these settings are, or you are not sure how to find out, then please see the section titled "About Your PC Port Address" immediately following this section in the manual, or you can consult your computer owner's manual.

6. After you have made your settings, exit the Cakewalk set-up utility and execute Cakewalk normally.

About Your PC Port Address

The driver for the PORTMAN 2x4 needs to be configured according to the Port Address and the Interrupt Request Number (IRQ) of the parallel port that you have the PORTMAN physically connected to. Basically, this information describes where everything is and the priority of each device connected to or installed in your computer.

There are a couple of ways to identify your Port's Address and IRQ. In Windows 98 or 95, go to the Control Panel from either settings or My Computer. Open System, click Device Manager, and open the "Ports" list. Highlight a Printer Port, click Properties, then click Resources. Here you will view the Interrupt Request, and the Input/Output range, which is the same as "Address."

Another way is to run the included program called LPT.EXE. This program must be run from DOS. If you are presently in Windows, you must go to Shut Down, and Restart in MS-Dos Mode, or otherwise quit (Exit Windows) your Windows session before executing LPT.EXE. The program is on your PORTMAN software diskette located at the following path:

[drive]:\LPT.EXE

The LPT.EXE program is simple to run having on-screen instructions. It will tell you how many parallel ports it finds and what their port addresses are. Use this information to help make your selection in the necessary driver set-ups. For other methods of finding this information, or if you are not exactly sure which LPT port the PORTMAN is connected to, please consult your computer manual or consult the manufacturer directly.

Basic Trouble-Shooting

If you are having problems using PORTMAN, you should first check the following:

1. Are all your cables working and plugged in properly?
2. Are you using a high quality printer cable 6 feet or less in length that matches the full Centronics specification as described in the "About the Parallel Cable" section found on pages 4 and 5 of this manual?
3. If you are using Windows, have you installed PORTMAN 2x4 Windows MIDI Drivers and set up the Windows MIDI application to communi-

cate with PORTMAN 2x4?
4. If you are using a DOS MIDI application, does it require a special set-up or MIDI driver?

If after checking the above quick-fix ideas you do not find an answer to your questions, please consult the "Advanced Trouble-Shooting" section below.

Advanced Trouble-Shooting

P2X4DIAG.EXE

In the event that you are having trouble getting the PORTMAN to be recognized in your system or getting the system to behave normally, it is always a good idea to test the PORTMAN using the diagnostics that we have provided.

We assume if you have gotten this far that you have already gone through the "quick-fixes" listed in the above "Basic Trouble-Shooting" section, and that you have already gone through the basic instructions in this manual and have a good understanding of your set-up. The PORTMAN diagnostic test can be found on your PORTMAN master disk located at the following path:

[drive]:\P2X4DIAG.EXE

This test must be run from DOS. In Win3.1, exit windows; in Win98 or Win95, go to Shut Down and choose restart in MS-DOS mode. When you run P2X4DIAG.EXE, you will get a title screen showing the test revision number and a list of settings. By this time you should know what your Port Address and IRQ settings are. If you don't, go back and read the installation instructions over, since you will need those numbers to run the test.

The test itself is quite simple. Just use the arrow keys to move from one line to the next and the space bar to move through the different options for each setting until they match your address and IRQ (usually address 378 and IRQ 7). Connect a single MIDI cable from In 1 to Out , plus a single MIDI cable from In 2 to Out 2 in order to perform the "Loopback" test. Now move the cursor to the "Run Tests" line and press [enter]. After you have successfully completed this test, you may change the "Loopback" setting, reconnect the looped MIDI cable to the ports you have chosen, and rerun the test.

P2X4DIAG.EXE will test the following four areas:

1. Hardware

This will indicate whether the PORTMAN, your computer, and the Centronics cable are all properly connected and working.

If your PORTMAN fails this test, it could mean a bad PORTMAN or other hardware failure, but most often it means one of a few very specific things:

a.) You have made the incorrect port settings in 2X4DIAG.
b.) The 2X4 is not plugged in.
c.) Your cable is not fully Centronics-compatible.

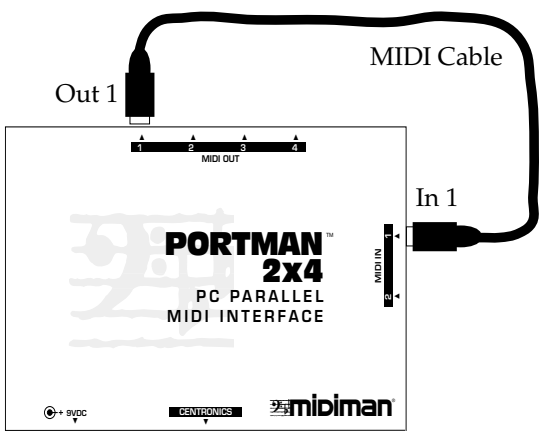
2. MIDI Input/Output

If your PORTMAN fails this test, it indicates a bad MIDI connection. It could also be an indication of a specific communication problem.

If this part of the test fails, reporting:

Transmit/Receive Test: Fail Tx=0h Rx=Timeout

a.) Make sure that your cables are good.
b.) Make sure that you have a MIDI cable connected between the correct MIDI In of the 2X4 and the correct MIDI Out. Your MIDI instruments should not be connected for this test. It is a closed loop test with one



MIDI cable connected between the MIDI jacks of the PORTMAN.

3. Internal Buffer Test

Your PORTMAN 2x4 should never fail the Internal Buffer Test. This test checks the PORTMAN's ability to handle the flow of data through its circuit and failure probably indicates a bad chip in the PORTMAN. If you think this is the case, please contact MIDIMAN Product Support.

4. Receive Interrupt Test

This test checks the reception of data from the PORTMAN into the computer's parallel port. This test, like the buffer test, should never fail. If it does, there are a few things to check.

Most computers use IRQ 7 for LPT1 and IRQ 5 for LPT2. If you have the PORTMAN connected to LPT1 on your computer and have I=7 set in 2X4DIAG.EXE, but it fails the Receive Interrupt Test, you could have a computer with IRQ 5 assigned to LPT1. Try that in 2X4DIAG.EXE.

If you are unsure of what your port IRQ is or how to find out, please see the section in this manual titled "About Your PC Port Address" (page 13), or you can consult your computer owner's manual.

It is also possible that you have a computer that does not have an IRQ attached to its parallel port. It may still be possible within Windows 98 or 95 to assign an IRQ by going to the Device Manager/Ports/Printer Port/Resources and choosing a different "basic configuration." You may be able to add an inexpensive add-on card to give this machine more LPT ports if it is a desktop. It is also possible that the IRQ is disabled on your parallel port and simply needs to be switched on. For information regarding this, consult your computer owner's manual or computer manufacturer directly.

Symptoms/Solutions

Even when the PORTMAN 2x4 passes its own diagnostic test, it is still possible that you may have other concerns. Below you will find a questions/answers-style reference on many such topics. Before consulting any of the information below, however, make sure that you have already looked through the other chapters in this manual that may pertain to your situation.

SYMPTOM: The PORTMAN tests fine with the diagnostic software, but won't work or isn't found by other (commercial) software.

SOLUTION: It is most likely that you don't have your software set up yet. In Windows, check to see that you have the PORTMAN 2x4 MIDI Device Driver installed in Windows, and that you have each MIDI application set up to look for the PORTMAN as a MIDI device. In DOS, verify that your program has support for the PORTMAN, and that you have the latest version of that program. Also, check to see that you have the latest versions of any necessary PORTMAN 2x4 drivers installed in the program.

SYMPTOM: The PORTMAN transmits MIDI garbage to my instruments, such as random note errors and streams of program changes.

SOLUTION: What is most likely happening here is that your computer, probably a laptop, is not transmitting information as fast as the PORTMAN is expecting it to. Go over the P2X4DIAG.EXE discussion starting on page 14. This should suggest a solution to the difficulty.

Windows

SYMPTOM: I only have one parallel port on my computer, so I have to remove the PORTMAN driver from Windows in order to use another device on the port.

SOLUTION: In the PORTMAN 2x4 Driver set-up you will find a checkbox to temporarily disable the PORTMAN. With this checked, and after rebooting Windows, the PORTMAN MIDI Driver will not be activated again until the box is unchecked.

SYMPTOM: When booting up Windows, I get the messages "Output

Hardware not Detected/Input Hardware not Detected."

SOLUTION 1: These messages always pop up when you go into Windows with the PORTMAN 2x4 disconnected. If, for instance, you only have one parallel port on your computer, but need to use a printer or other device on that port, there is a check-box in the PORTMAN 2x4 Driver set-up that will allow you to disable this message upon rebooting.

SOLUTION 2: It is most likely that you do not have a PORTMAN 2x4 MIDI Driver for Windows installed in your system, or that your driver is not set up correctly for your parallel port. Please see Windows Driver Installation and "About Your PC Port Address" (page 13) for more instructions.

SYMPTOM: My Windows MIDI program crashes when I try to use it.

SOLUTION: This is not a likely occurrence and not necessarily related to the PORTMAN directly. The first thing to do is remove the PORTMAN MIDI driver from your Windows Control Panel. After rebooting Windows without the PORTMAN driver installed, check to see if the program still fails in the same way. If it does, contact the manufacturer of your MIDI program.

If it doesn't, then it could be related to the PORTMAN 2x4 MIDI driver. Contact MIDIMAN Technical Support to verify that you have the latest driver version.

DOS

SYMPTOM: My PORTMAN works fine with my Windows MIDI programs, but it isn't found by my DOS MIDI programs.

SOLUTION 1: Make sure that you have each of your DOS programs set up correctly. In Windows, MIDI programs take advantage of global Multimedia drivers which often-times require no further set-up. DOS MIDI programs, on the other hand, each need to be set up individually according to the particular manufacturer's instructions. Sometimes support is built-in; sometimes a driver must be installed separately.

SOLUTION 2: Not all DOS MIDI programs have support for the PORTMAN. Check with the software manufacturer to confirm that they support the PORTMAN.

Limited Lifetime Warranty

P2X4: 060299

MIDIMAN warrants that this product is free of defects in materials and workmanship under normal use so long as the product is owned by the original purchaser and that purchaser has registered his/her ownership of the product by sending in the completed warranty card.

In the event that MIDIMAN receives written notice of defects in materials or workmanship from such an original purchaser, MIDIMAN will either replace the product, repair the product, or refund the purchase price at its option. In the event any repair is required, shipment to and from MIDIMAN and a nominal handling charge shall be born by the purchaser. In the event that repair is required, a Return Authorization number must be obtained from MIDIMAN. After this number is obtained, the unit should be shipped back to MIDIMAN in a protective package with a description of the problem and the Return Authorization clearly written on the package.

In the event that MIDIMAN determines that the product requires repair because of user misuse or regular wear, it will assess a fair repair or replacement fee. The customer will have the option to pay this fee and have the unit repaired and returned, or not pay this fee and have the unit returned unrepaired.

The remedy for breach of this limited warranty shall not include any other damages. MIDIMAN will not be liable for consequential, special, indirect, or similar damages or claims including loss of profit or any other commercial damage, even if its agents have been advised of the possibility of such damages, and in no event will MIDIMAN's liability for any damages to the purchaser or any other person exceed the price paid for the product, regardless of any form of the claim. MIDIMAN specifically disclaims all other warranties, expressed or implied. Specifically, MIDIMAN makes no warranty that the product is fit for any particular purpose.

This warranty shall be construed, interpreted, and governed by the laws of the state of California. If any provision of this warranty is found void, invalid or unenforceable, it will not affect the validity of the balance of the warranty, which shall remain valid and enforceable according to its terms. In the event any remedy hereunder is determined to have failed of its essential purpose, all limitations of liability and exclusion of damages set forth herein shall remain in full force and effect.